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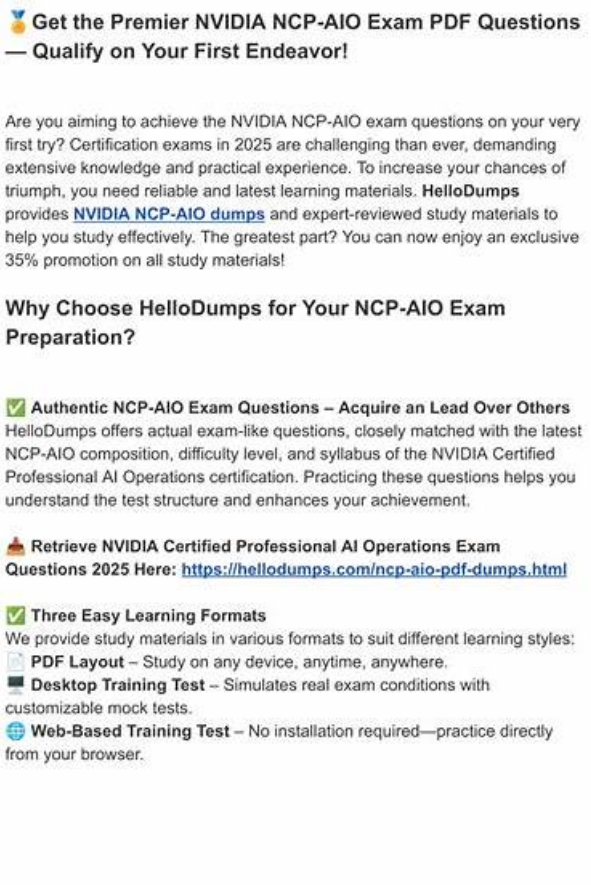

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 2	• Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.
Topic 3	• Troubleshooting and Optimization: NVIThis section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.
Topic 4	• Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.

NVIDIA AI Operations Sample Questions (Q59-Q64):

NEW QUESTION # 59
You are tasked with deploying a deep learning framework container from NVIDIA NGC on a stand-alone GPU-enabled server. What must you complete before pulling the container? (Choose two.)

- A. Generate an NGC API key and log in to the NGC container registry using docker login.
- B. Install Docker and the NVIDIA Container Toolkit on the server.
- C. Install TensorFlow or PyTorch manually on the server before pulling the container.
- D. Set up a Kubernetes cluster to manage the container.

Answer: A,B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Before pulling and running an NVIDIA NGC container on a stand-alone server, you must:
* InstallDockerand theNVIDIA Container Toolkitto enable container runtime with GPU support.
* Generate anNGC API keyand authenticate with the NGC container registry usingdocker loginto pull private or public containers.
Setting up Kubernetes or manually installing deep learning frameworks is unnecessary when using containers as they include the required frameworks.

NEW QUESTION # 60
You need to implement a highly available and fault-tolerant Fleet Command deployment for a mission-critical AI application. What architectural considerations are MOST important for ensuring resilience?

- A. Rely solely on the edge devices' ability to operate independently during Fleet Command outages.
- B. Utilize a multi-node Fleet Command cluster with redundancy and failover mechanisms, combined with geographically diverse edge device deployments.

- C. Monitor the Fleet Command server's performance and resource utilization.
- D. Deploy a single Fleet Command server in a standard configuration.
- E. Regularly back up the Fleet Command server's configuration and data.

Answer: B

Explanation:
A multi-node cluster provides redundancy and failover capabilities, ensuring high availability. Geographically diverse edge deployments minimize the impact of regional outages. A single server (A) is a single point of failure. Backups (C) are important but don't prevent downtime. Monitoring (D) helps identify issues but doesn't ensure resilience. Solely relying on edge devices (E) limits manageability and control.

NEW QUESTION # 61
You have a requirement to use SR-IOV (Single Root 1/0 Virtualization) to partition a physical GPU into multiple virtual functions (VFs) for different containers. What steps are necessary to configure BCM and Kubernetes to support this?

- A. No special configuration is needed; Kubernetes automatically detects and uses SR-IOV enabled GPUs.
- B. Install the NVIDIA SR-IOV device plugin on each node.
- C. Enable SR-IOV in the node's BIOS.
- D. Specify the VF resource in the pod's resource requests (e.g., 'nvidia.com/vf: 1 '
- E. Configure the number of VFs to create on each GPU in the node's device tree overlay.

Answer: B,C,D,E

Explanation:
SR-IOV needs to be enabled at the hardware (BIOS) level. The SR-IOV device plugin is required for Kubernetes to discover and manage VFs. VF creation involves device tree configuration. Pods need to explicitly request VF resources. Kubernetes doesn't automatically use SR-IOV without the plugin and configuration.

NEW QUESTION # 62
A data science team is experiencing frequent job failures in their Run.ai cluster due to exceeding GPU memory limits. You need to implement a solution that dynamically adjusts GPU resources based on the actual consumption of each job. Which Run.ai feature is MOST appropriate for this scenario?

- A. Gang Scheduling
- B. Fractional GPUs (MIG)
- C. Dynamic Resource Allocation using GPU Metrics
- D. Guaranteed Quotas
- E. Node Affinity

Answer: C

Explanation:
Dynamic Resource Allocation, leveraging GPU metrics, is the most appropriate choice. It allows Rumai to monitor GPU utilization in real-time and adjust resources (primarily memory) allocated to jobs dynamically, preventing 00M errors and maximizing GPU utilization across the cluster. MIG partitioning statically divides GPUs, while quotas enforce limits but don't dynamically adjust. Gang scheduling is about scheduling entire groups of tasks together. Node affinity control where the jobs are scheduled and it does not help with memory allocation.

NEW QUESTION # 63
You are implementing a DOCA application on a BlueField-3 DPU that requires secure communication with a remote server. Which of the following methods can be used to establish a secure connection, and what are the key considerations?

- A. Using IPsec: Configure IPsec tunnels between the DPU and the remote server for secure IP-layer communication, considering encryption algorithms and authentication methods.
- B. Using TLS/SSL: Implement TLS/SSL encryption for all communication channels, ensuring proper certificate management and key exchange.
- C. Using MACsec: Implement MACsec on ethernet to ensure communication link level securtiy.

- D. Using DOCA Comm Channel with encryption: Enable encryption within the DOCA Comm Channel for secure control message exchange, managing encryption keys appropriately.
- E. Using SSH tunneling: Establish an SSH tunnel between the DPU and the remote server to forward traffic securely, ensuring proper authentication and authorization.

Answer: A,B,E

Explanation:
TLS/SSL, IPsec, and SSH tunneling are all viable options for establishing secure communication. Key considerations include certificate management, encryption algorithms, authentication methods, and key exchange mechanisms. MACsec is more of a link level security. Comm channel doesnt have security mechanism defined.

NEW QUESTION # 64
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